

SOUTHERN NEVADA BUILDING OFFICIALS
2003 IECC PRESCRIPTIVE RESIDENTIAL ENVELOPE REQUIREMENTS

Location	Heating Degree Days (HDD)	Window U-Factor	Window SHGC	Ceiling	Wall	Floor	Basement Wall	Slab Perimeter	Crawl Space Wall
Clark County	2000-2499	.65	.40	R-30	R-13	R-11	R-5	0	R-6
Spring Mtn. Range	7000-8499	.35	-	R-49	R-21	R-21	R-11	R-13, 4ft.	R-20

This table of prescriptive requirements is applicable to homes in which the ratio of rough opening of windows to the gross wall area is less than or equal to 15%. For homes with glazing greater than 15%, please refer to Tables 502.4(4)-(6) of the 2003 International Energy Conservation Code as amended by the Southern Nevada International Energy Conservation Code. SHGC = Solar Heat Gain Coefficient.

Notes:

1. This table is based on the 2003 International Energy Conservation Code as amended by the Southern Nevada International Energy Conservation Code.
2. Source of requirements for the Table: 2003 IECC, Chapter 5 Prescriptive Packages for Climate Zone 5 (Las Vegas area), Climate Zone 15 (Mt. Charleston), and Climate Zone 7 (Laughlin). Alternate approaches must be used for glazing areas over 25%.
3. Window area % and U-factors are maximum acceptable levels.
4. Insulation R-values are minimum acceptable levels.
5. This table applies to single family, wood framed residential construction. For steel-framed wall construction or high-mass wall construction, refer to Chapter 5 of the IECC.
6. "Window" refers to any translucent or transparent material (i.e., glazing) in exterior openings of buildings, including skylights, sliding glass doors, the glass areas of opaque doors and glass blocks.
7. Window U-factor must be determined from the National Fenestration Rating Council (NFRC) label on the product, or from a limited table of product "default" values located in the IECC.
8. Window area percentage ratio is the rough opening of windows in the gross wall area, expressed as a percentage. Up to one percent of the total window area may be exempt from the U-factor requirement.
9. Opaque doors must have a maximum U-factor of .35. One exempt door is allowed.
10. The code requires that the windows be labeled in a manner to determine that they meet the IECC air infiltration requirements; specifically equal to or better than 0.30 cfm per square foot of window area (swinging doors below 0.50 cfm), as determined in accordance with AAMA/WDMA 101/1.S.2 (ASTM E 283).
11. Floors exposed to outside air must meet ceiling requirements.
12. R-values for walls represent the sum of cavity insulation plus insulated sheathing, if any. Crawl space wall R-value shall only apply to unventilated crawl spaces.
13. Prescriptive packages are based upon normal HVAC equipment efficiencies (see Chapter 5 of the IECC). The code also requires the HVAC system to be sized using a computational procedure, such as ACCA Manual J. A minimum AFUE rating of 78% required for Furnaces and a minimum SEER rating of 10 is required for Air Conditioning Units and Heat Pumps.